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Patent
Attorney's Docket No. 1030681-000625

CO/C
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent of

June-o Song et al.

Patent No.: 6,989,598

Issued: January 24, 2006

Title: THIN FILM ELECTRODES FOR FORMING
OHMIC CONTACT IN LIGHT EMITTING
DIODES AND LASER DIODES USING
NICKEL-BASED SOLID SOLUTIONS FOR
MANUFACTURING HIGH PERFORMANCE
GALLIUM, NITRIDE- BASED OPTICAL
DEVICES ...

Certificate
MAY 02 2008
of Correction

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Issuance of a Certificate of Correction for the above-captioned patent is respectfully requested in accordance with the accompanying Form PTO-1050 (submitted in duplicate).

- ☒ The requisite government fee of \$ 100:
☐ is submitted herewith;
☒ is authorized to be charged to Deposit Account No. 02-4800; or
☐ charge to credit card. Form PTO-2038 is attached.
- ☐ It is believed that payment of a fee is unnecessary.

Enclosed is a copy of the Assignment as filed which correctly shows the Assignees Samsung Electronics Co., Ltd. and Kwangiu Institute of Science and Technology. Also enclosed is a copy of the Notice of Recordation of Assignment mailed September 10, 2004, which correctly shows the Assignees. We enclose a copy of the PTOL-85 form which correctly included Samsung Electronics Co., Inc., but inadvertently omitted the second Assignee, Kwangiu Institute of Science and Technology. The Certificate of Correction will correct this oversight.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. § 1.20(a) that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

05/01/2008 HDESTA1 00000062 024800 6989598

01 FC:1811 100.00 DA

Date: April 29, 2008

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

By:

Charles F. Wieland III
Registration No. 33096

P.O. Box 1404
Alexandria, VA 22313-1404
703 836 6620

Buchanan Ingersoll & Rooney PC
Attorneys & Government Relations Professionals

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Patent Publication

MAY - 2 2008

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,989,598
DATED : January 24, 2006
INVENTOR(S) : June-o Song et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page, please correct the Assignee's Information **from:**

"(73) Assignee: Samsung Electronics Co., Ltd."

to:

--(73) Assignees: Samsung Electronics Co., Ltd.
Suwon-si, Gyeonggi-do (KR) and
Kwangju Institute of Science and Technology
Buk-gu, Gwangju-shi (KR)--

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Patent Publication

MAY - 2 2008

MAILING ADDRESS OF SENDER:

PATENT NO. 6,989,598

BUCHANAN INGERSOLL & ROONEY PC
P.O. Box 1404
Alexandria, VA 22313-1404



No. of additional copies
1

SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 10, 2004

PTAS

BURNS, DOANE, SWECKER & MATHIS, L.L.P.
CHARLES F. WIELAND III
P.O. BOX 1404
ALEXANDRIA, VA 22313-1404



102701115A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/17/2004

REEL/FRAME: 015102/0522
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 303681-635

ASSIGNOR:
SONG, JUNE-O

DOC DATE: 03/15/2004

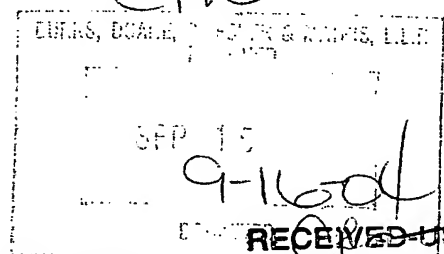
ASSIGNOR:
LEEM, DONG-SUK

DOC DATE: 03/15/2004

ASSIGNOR:
SEONG, TAE-YEON

DOC DATE: 03/15/2004

ASSIGNEE:
SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN-DONG, YEONGTONG-GU,
SUWON-SI
GYEONGGI-DO, REPUBLIC OF KOREA



015102/0522 PAGE 2

ASSIGNEE:

KWANGJU INSTITUTE OF SCIENCE AND
TECHNOLOGY

1 ORYONG-DONG, BUK-GU

KWANGJU-SI, REPUBLIC OF KOREA

SERIAL NUMBER: 10801823

FILING DATE: 03/17/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: THIN FILM ELECTRODE FOR FORMING OHMIC CONTACT IN LIGHT EMITTING
DIODES AND LASER DIODES USING NICKEL-BASED SOLID SOLUTION FOR
MANUFACTURING HIGH PERFORMANCE GALLIUM NITRIDE-BASED OPTICAL
DEVICES, AND METHOD FOR FABRICATING THE SAME

LAZENA MARTIN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED-USPTO
Patent Publication

MAY - 2 2008

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) June-o SONG; (2) Dong-suk LEEM; and (3) Tae-yeon SEONG residing at (1) Department of Materials Science and Engineering, Kwangju Institute of Science and Technology, 1 Oryong-dong, Buk-gu, Kwangju-si, Republic of Korea; (2) Department of Materials Science and Engineering, Kwangju Institute of Science and Technology, 1 Oryong-dong, Buk-gu, Kwangju-si, Republic of Korea; and (3) Department of Materials Science and Engineering, Kwangju Institute of Science and Technology, 1 Oryong-dong, Buk-gu, Kwangju-si, Republic of Korea; (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in THIN FILM ELECTRODE FOR FORMING OHMIC CONTACT IN LIGHT EMITTING DIODES AND LASER DIODES USING NICKEL-BASED SOLID SOLUTION FOR MANUFACTURING HIGH PERFORMANCE GALLIUM NITRIDE-BASED OPTICAL DEVICES, AND METHOD FOR FABRICATING THE SAME set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☒ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, (1) Samsung Electronics Co., Ltd., and (2) Kwangju Institute of Science and Technology, a corporation duly organized under and pursuant to the laws of Korea and having a principal place of business at (1) 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and (2) 1 Oryong-dong, Buk-gu, Kwangju-si, Republic of Korea (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the

Attorney Docket No. 030681-635

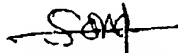
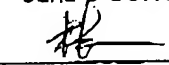
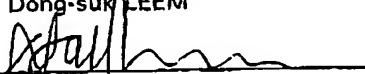
Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P., of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

DATE 15 March 2004
June-p SONGDATE 15 March 2004
Dong-suk LEEMDATE 15 March 2004
Tae-yeon SEONG

03-23-2004



ET

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Attorney's Docket No. 030681-635

102701115

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

June-o SONG; Dong-suk LEEM; and Tae-yeon SEONG

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: March 15, 2004

2. Name and address of receiving party(ies):

1) Samsung Electronics Co., Ltd., and
Name: 2) Kwangju Institute of Science and Technology
Internal Address:

Street Address:

1) 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of Korea, and
2) 1 Oryong-dong, Buk-gu, Kwangju-si, Republic of Korea

City: _____ State: _____ Zip: _____

Additional name(s) & addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: March 15, 2004

A. Patent Application No.(s)

10801823

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Charles F. Wieland III

Internal Address:

Burns, Doane, Swecker & Mathis, L.L.P.
Customer Number 21839
P.O. Box 1404

Street Address:

City: Alexandria State: VA Zip: 22313-1404

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

02-4800

(Attach duplicate copy of this page if paying by deposit account.)

DO NOT USE THIS SPACE

9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Charles F. Wieland III, Reg. No. 33,096

Name of Person Signing

Signature

March 17, 2004

Date

Total number of pages including cover sheet, attachments, and documents:

3

Mail documents to be recorded with required cover sheet information to:
Director of the United States Patent and Trademark Office / Mail Stop Assignment Recordation Services
P.O. Box 1450 / Alexandria, VA 22313-1450

03/18/2004 KBETEMAI 00000023 10801823

03 FC:8021

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

21839 7590 09/22/2005

BUCHANAN INGERSOLL PC
(INCLUDING BURNS, DOANE, SWECKER & MATHIS)
POST OFFICE BOX 1404
ALEXANDRIA, VA 22313-1404

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,823	03/17/2004	June-o Song	030681-635	2523

TITLE OF INVENTION: THIN FILM ELECTRODE FOR FORMING OHMIC CONTACT IN LIGHT EMITTING DIODES AND LASER DIODES USING NICKEL-BASED SOLID SOLUTION FOR MANUFACTURING HIGH PERFORMANCE GALLIUM NITRIDE-BASED OPTICAL DEVICES, AND METHOD FOR FABRICATING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	12/22/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
DICKEY, THOMAS L	2826	257-743000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Buchanan Ingersoll PC
(including attorneys
2 from Burns, Doane,
3 Swecker & Mathis, LLP

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Samsung Electronics Co., Ltd.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Suwon-si, Gyeonggi-do, Republic of Korea

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☒ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.

☒ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 02-4800 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Typed or printed name

Charles F. Wieland III

Date November 3, 2005

Registration No. 33,096

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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